

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P402248

Luminaire Tested: **LD1MR022D010 ED1M22309027SC1MW**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P402248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2005-766-2)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 6/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD1MR022D010 ED1M22309027SC1MW  
Description: 1 INCH 30° OPTIC WITH SPECULAR CLEAR BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

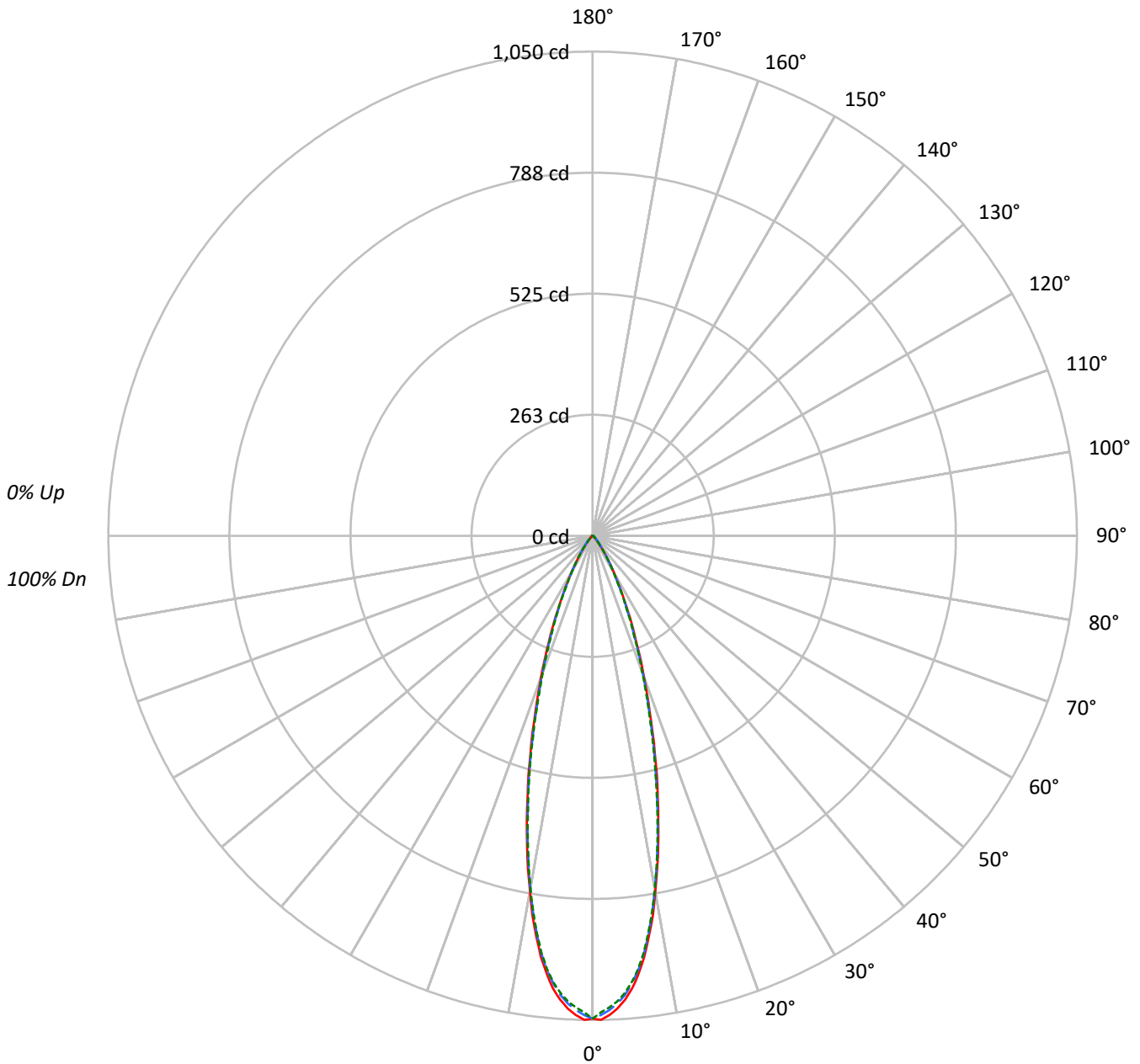
Lumens per Lamp: N/A  
Luminaire Lumens: 356.9 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52  
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	95								
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91								
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87								
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83								
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79								
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76								
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73								
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70								
9	85	77	73	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67								
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	324634	324634	324634
5°	306705	303562	302566
10°	246602	244745	244461
15°	172504	169583	168845
20°	107612	104907	103720
25°	62287	60406	59619
30°	33147	32181	31536
35°	15895	16387	16046
40°	6637	9065	6839
45°	3420	5612	3595
50°	2218	3279	2411
55°	1459	2216	1730
60°	868	1426	1116
65°	367	1027	367
70°	0	453	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	24.4
10°-20°	145.1	40.7
20°-30°	83.5	23.4
30°-40°	29.0	8.1
40°-50°	8.2	2.3
50°-60°	3.2	0.9
60°-70°	0.9	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	315.6	88.4
0°-40°	344.7	96.6
0°-60°	356.0	99.8
0°-90°	356.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	356.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	986	980	976	977	972	88
15°	538	535	528	527	526	147
25°	182	180	177	176	174	85
35°	42	44	43	43	42	28
45°	8	9	13	9	8	7
55°	3	3	4	3	3	3
65°	0	1	1	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1047.2	1047.2	1047.2	1047.2	1047.2
1°	1049.9	1044.9	1039.4	1039.4	1033.9
2°	1039.9	1035.3	1029.4	1029.8	1023.9
3°	1026.6	1022.1	1016.1	1017.1	1011.6
4°	1008.4	1002.5	998.4	999.7	994.7
5°	985.6	979.6	975.5	977.4	972.3
6°	954.5	950.4	946.8	949.1	944.5
7°	919.9	915.3	912.6	914.4	910.7
8°	877.4	874.2	871.0	872.9	869.2
9°	834.1	829.1	825.9	827.2	824.5
10°	783.4	781.2	777.5	778.9	776.6
11°	734.6	734.6	727.8	725.5	726.9
12°	684.4	684.0	677.6	674.8	675.8
13°	633.8	633.3	626.9	624.7	625.1
14°	583.6	584.0	577.2	575.4	574.9
15°	537.5	535.2	528.4	527.0	526.1
16°	489.1	488.7	481.8	480.0	479.1
17°	445.8	443.5	436.7	434.8	433.5
18°	400.6	401.1	394.2	392.9	390.6
19°	362.3	361.4	355.0	353.6	351.3
20°	326.2	322.1	318.0	316.7	314.4
22.5°	245.9	243.7	238.2	236.8	236.4
25°	182.1	179.8	176.6	175.7	174.3
26°	159.2	159.7	155.6	154.7	153.8
27°	141.0	140.1	136.4	136.0	134.6
28°	121.4	122.3	118.2	117.7	116.8
29°	105.9	105.9	103.6	102.2	101.3
30°	92.6	92.2	89.9	89.0	88.1
32.5°	63.9	63.4	62.5	62.1	61.1
35°	42.0	43.8	43.3	43.3	42.4
37.5°	26.0	29.7	31.0	30.6	27.8
40°	16.4	19.2	22.4	20.5	16.9
42.5°	11.0	13.2	16.4	13.7	11.0
45°	7.8	9.1	12.8	9.1	8.2
47.5°	5.9	6.8	9.6	6.8	5.9
50°	4.6	5.5	6.8	5.5	5.0
52.5°	3.7	4.1	5.5	4.1	3.7
55°	2.7	3.2	4.1	3.2	3.2
57.5°	2.3	2.7	3.2	2.7	2.3
60°	1.4	1.8	2.3	1.8	1.8
62.5°	0.9	1.4	1.8	1.4	0.9
65°	0.5	0.9	1.4	0.9	0.5
67.5°	0.0	0.5	0.5	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°    - - 45°-225°    - - - - 90°-270°







70°	0.0	0.0	0.5	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)